an illumination apparatus comprising a liquid light guide coupled to the plate for highlighting the plurality of cells in a relatively even spatial manner for image capturing purposes:

a robot arm for automatically collecting multiple of said cell holders to facilitate capture of the images of the cells of cell structures from said multiple cell holders; and

software that analyses the images and characterizing features of the cells or cell structures in the images.

- 30. The system of claim 29, further comprising a stage for moving the cell holder with respect to the image capturing device.
- 31. The system of claim 29, wherein the illumination apparatus comprises subelements, at least one of the sub-elements being positioned away from the image capturing device to reduce a possibility of vibration from the at least one sub-element being transmitted to the image capturing device.
- 32. The system of claim 29, wherein the digital representation comprises a plurality of regions and objects.
- 33. The system of claim 29, further comprising a computing device connected to a database storage device and the image processing device.
- 34. The system of claim 29, wherein the image capturing device provides a magnification of at least about 1X to capture the image of the site.
- 35. The system of claim 29, further comprising a filter wheel having a plurality of filters, each filtering for a different color.
- 36. The system of claim 29, wherein the liquid light guide is characterized as a flexible member that substantially prevents vibration from an element of the illumination apparatus to be transferred to the image capturing device.
- 37. The system of claim 29, further comprising a bar code mechanism allowing bar codes to be read from multiple cell holders when the cells they hold are to be imaged.
- 38. The system of claim 29, further comprising software that controls operation of the image capturing device.
- 39. The system of claim 29, further comprising software for creating and sequentially naming files of the images.